

**ADAPTIVE DIFFERENTIAL PULSE CODE MODULATION SYSTEM AND  
METHOD UTILIZING WHITENING FILTER  
FOR UPDATING OF PREDICTOR COEFFICIENTS**

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## ABSTRACT OF THE DISCLOSURE

An improved technique for processing digital audio signals is provided wherein adaptation of predictor coefficients in an ADPCM environment is caused to converge in a rapid and computationally efficient manner. The technique employs a whitening filter to generate a filtered reconstructed signal which is utilized to update, or adapt, the prediction coefficients of a pole-based predictor.